

ABSTRACT

The invention relates to petrochemistry, specifically to removing hydrocarbons from a vapour-gas medium formed during petroleum product storage. The inventive method consists in pump supplying a liquid medium to a liquid/gas jet device, pumping out said vapour-gas medium from a container filled with a petroleum product or from a petroleum product storage tank, compressing the vapour-gas mixture in the liquid/gas jet device by a liquid-medium energy. A gaseous phase is lead from a separator to an absorption column, wherein the absorption of hydrocarbons from the gaseous phase is carried out by means of a hydrocarbon liquid which is supplied to said column in the form of an absorber. The hydrocarbon-free gaseous phase and the hydrocarbon liquid containing hydrocarbons dissolved therein are separately evacuated from the absorption column. Gasoline or kerosene are used in the form of a petroleum product and a hydrocarbon liquid and cooled to a temperature ranging from minus 10°C to minus 50°C prior to the supply thereof to the absorption column, and the pressure of the vapour-gas and liquid media mixture which is formed in the liquid/gas jet device is maintained in the separator at a level ranging from 0.2 MPa to 1.5 MPa. Said invention makes it possible to increase the efficiency of hydrocarbon removal from the vapour-gas medium with low electric energy consumption.